

CLAIMS

1 1. A nut assembly comprising;

2 a first fastener member having a first generally cylindrical inner bore
3 provided with a first set of threads therein,

4 a second fastener member provided with a second set of threads on
5 an exterior surface thereof for threadable engagement with said first set of
6 threads, said second fastener member having a second generally cylindrical
7 inner bore provided with a third set of threads therein,

8 said first set of threads, said second set of threads and said third set
9 of threads all being cut in the same direction,

10 whereby as a threaded member having a thread/shank interface is
11 threadably advanced into said second set of threads of said second fastener
12 member, said second fastener member contacts said thread/shank interface,
13 with further relative advancement rotation between said first fastener member
14 and said second fastener member causing said first fastener member to be
15 advanced past said thread/shank interface of said threaded member.

1 2. A nut assembly as set forth in claim 1 wherein said first fastener and said
2 second fastener are attached by an attachment so that said second fastener
3 member initially makes contact with said thread/shank interface, after which
4 additional torque is required to break said attachment to advance said first
5 fastener past said thread/shank interface.

1 3. A nut assembly as set forth in claim 2 wherein said attachment provides
2 resistance to turning of said second fastener member within said first fastener
3 member.

1 4. A fastener as set forth in claim 2 wherein said attachment is a bonding
2 agent.

1 5. A nut assembly as set forth in claim 1 wherein said threaded member is a
2 bolt.

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1 6. A nut assembly as set forth in claim 1 further comprising at least two
2 coplanar members each having an opening therein, said openings being
3 coaxially aligned, with said threaded member extending through said openings
4 so that a shank of said threaded member is disposed within said openings and
5 said thread/shank interface extends beyond said openings, whereby when a
6 said nut assembly is threaded onto said threaded member, tightening of said
7 bolt on said threaded member assembly causes said second fastener member
8 to contact said thread/shank interface, with further rotation of said first
9 fastener member causing advancement thereof past said thread/shank
10 interface in order to contact a respective one of said coplanar members, thereby
11 compressing said coplanar members together.

1 7. A fastener for use in conjunction with a threaded bolt having a shank, or

2 other threaded member having a shank and comprising:

3 a fastener member having a first bore with internal threads therein,

4 a generally cylindrical member having a second bore, with threads
5 disposed in said second bore for threadably engaging threads of said bolt or
6 other threaded member, and threads on an outer surface of said cylindrical
7 member for threadably engaging said internal threads of said first fastener
8 member so that when said threads of said bolt or other threaded member are
9 threadably advanced into said second bore, said shank engages an end of said
10 threads of said second cylindrical member and blocks further advancement
11 thereof, with said first fastener member advanceable past said shank and
12 tightenable against a workpiece.

1 8. A fastener as set forth in claim 7 further comprising an attachment coupling
2 said fastener member and said cylindrical member together so that after said
3 cylindrical member contacts said shank, additional torque is required to break
4 said attachment so that said fastener member may be advanced over said
5 shank.

1 9. A fastener as set forth in claim 8 wherein said attachment provides
2 resistance to turning of said cylindrical member within said fastener member.

1 10. A fastener as set forth in claim 8 wherein said cylindrical member is longer
2 than said fastener member.

1 11. A fastener as set forth in claim 10 further comprising a locking member
2 threadable onto an exterior portion of said cylindrical member, and threadably
3 abutable against said fastener member for locking said fastener member and
4 said cylindrical member together.

1 12. A fastener as set forth in claim 10 wherein a threaded portion of said
2 threaded bolt or other threaded member extends beyond said cylindrical
3 member, with a locking member threadable onto said bolt or other threaded
4 member and threadably abutable against said cylindrical member for locking
5 said fastener member, said cylindrical member and said bolt or other threaded
6 member together.

1 13. A fastener as set forth in claim 10 further comprising at least two coplanar
2 members each having an opening, each said opening coaxially aligned, with
3 said shank extending through both openings and terminating therebeyond so
4 that when said fastener is threaded onto said threaded bolt or other threaded
5 member, said generally cylindrical member first contacts said shank, with
6 additional torque applied to said fastener member or said threaded bolt or
7 other threaded member breaking said attachment so that said fastener member
8 may be threaded onto said cylindrical member to abut an adjacent coplanar
9 member.

1 14. A method for ensuring that the shank of a threaded article is positioned at

2 and passed through the contact plane of adjoining members comprising the
3 steps of:

4 1) threadably positioning a sleeve having exterior threads and interior
5 threads within a threaded bore of a fastening member,

6 2) threadably advancing said sleeve onto said article until said sleeve
7 abuts a thread/shank interface of said article, halting advancement of said
8 sleeve onto said article,

9 3) continuing to threadably advance said fastening member on said
10 sleeve until said fastening member contacts an adjacent one of said adjoining
11 members.

12 15. A method as set forth in claim 14 further comprising the step of releasably
13 attaching said fastening member and said sleeve together.

14 16. A method as set forth in claim 15 further comprising the step of
15 constructing said sleeve of a length longer than said fastening member.

16 17. A method as set forth in claim 16 further comprising the step of threading
17 a locking nut onto said sleeve in abutting relation with said fastening member
18 to lock said sleeve, said fastening member and said adjoining members
19 together.

20 18. A method as set forth in claim 16 further comprising threading a locking

- 2 nut onto threads of said threaded article in abutting relation against said
- 3 sleeve.